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NEWLY EMERGING ENVIRONMENTAL POLICIES WITH A POSSIBLE TRADE IMPACT: A PRELIMINARY DISCUSSION

Report by the UNCTAD secretariat

Statistical annex

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I. INTRODUCTION

1. The secretariat's report TD/B/WG.6/9 on "Newly emerging environmental policies with a possible trade impact", in particular in Chapter II, contains a preliminary analysis of product-specific environmental policy instruments with possible trade effects. As noted in paragraph 36 of that report, these effects depend to a large extent on the importance of current and potential imports of products covered by such instruments.

2. The purpose of this note is to provide some background information on the significance of current international trade flows in product groups which may be potentially affected by selected environmental measures, in particular those analysed in TD/B/WG.6/9. In addition, this note complements the analysis presented in Chapter III of the secretariat's report entitled "The policy debate on trade, environment and development" (TD/B/WG.6/10) and its statistical annex (TD/B/WG.6/10/Add.1). The current analysis covers the European Union, Japan, the United States, as the European Union, Germany and the Netherlands. Information on environmental measures has been collected by UNCTAD staff, and may be incomplete.

3. The note is organized as follows: Section A describes the ongoing process of adjustment of the database. Section B discusses methodological questions. Section C provides a preliminary indication of the significance of current trade flows in sectors where product-specific environmental requirements are emerging. Annex I defines environmental measures which are being included in the Trade Control Measures (TCM) data base.

A. Adjustment in the TCM database

4. The secretariat is in the process of adjusting its Trade Control Measures (TCM) data base, managed by UNCTAD's Trade Control Measures Information System (TCMIS), to include environment-related measures. Work is based on information provided by member States and research by UNCTAD staff.[1] Detailed information has also been provided by the secretariats of different Multilateral Environmental Agreements (MEAs).

5. Work related to the database adjustment is also supported by extra-budgetary resources. Under a project supported by the Collaborative Research on the Economics of Environment and Development (CREED), the secretariat is analysing product-related environmental measures applied in the major OECD countries, and is linking these measures, to the fullest possible extent, to the Harmonized System classification system. Similar work, focusing also on trade measures in the framework of Multilateral Environmental Agreements (MEAs), is being undertaken for the ASEAN secretariat, which is implementing a UNDP-funded project which includes research on trade and environment carried out by research institutes in the member States of ASEAN.

6. The secretariat is further developing GREENTRADE, which is a computerized information system that allows encoding and retrieval of information on environmental product concerns and measures, using a Personal Computer. A pilot version of the system, as well as a user's manual, have been prepared. GREENTRADE will become part of UNCTAD's TRAINS system.

B. Methodology

7. The definition of selected environment-related product measures is given in Annex II. This list follows, as far as possible, definitions used in the context of TCMIS. Some of these measures, such as standards, regulations and product taxes, have, in principal, already been encoded in the TCM database. With the inclusion of environment-related measures, the TCM database will contain a larger number of measures.

8. With regard to the methodology used in this note, estimating the value of trade flows in products which are subject to environmental measures is very difficult. Any systematic analysis requires that information on environmental measures be combined with information on trade flows, which is easily available only when the Harmonized System (HS) nomenclature is used.[2]

9. In many cases it is difficult, if not impossible, to identify products covered by environmental measures in terms of the existing HS nomenclature.[3] Many environmental measures cover very broad or vaguely described product groups. This is the case, for example, of packaging requirements. As such measures cannot be encoded in a meaningful way using the HS nomenclature, they have not been included in the analysis presented in this note. This approach implies a certain underestimation of trade flows covered by environmental requirements.

10. A special category of measures are those prescribing product content, such as measures setting limit values for certain chemicals that can be permitted in products. One problem is that information on such measures is normally available only in terms of the controlled substance and not in terms of products which may contain such substance. For example, bans on the use of asbestos may affect a large range of products, but which are generally not specified in the corresponding regulation. Product content requirements have been included in the current analysis only when they are to a considerable extent sector-specific (such as limitations on the pentachlorophenol content of leather and leather products) and may reasonably be expected to be relevant (for example, products which are classified in the HS nomenclature as "made of asbestos" are included in the analysis, but toys, which at times may contain asbestos, are excluded).

11. Other measures affect only part of a tariff line. This is the case, for example, for almost all items subject to trade provisions under the Convention on International Trade in Endangered Species (CITES). Such measures have in general been excluded from the analysis presented in this note, unless it can reasonably be expected that the products covered by the measure in question represent a significant portion of the corresponding tariff line. An example of products which have been included in the current analysis are substances controlled by the Montreal Protocol on Substances that Deplete the Ozone Layer. This approach implies a certain overestimation of trade flows covered by the measure in question.

12. It should further be stressed that the TCM database provides information only on the mere existence of a product-specific environmental measure. without any indication of its potential trade impact, if any. The current analysis thus provides only a preliminary indication of the value of trade in products for which environmental measures, with different degrees of stringency, have been identified, and does not in any way assess their real impact on trade or export competitiveness.[4]

C. Trade flows

The results, grouped for broad product categories, are presented in two sets of tables. The first set of tables shows summary trade information for each market (Annex I). The second set of information provides more detailed information on product classification, type of measure(s) applied, and principal suppliers (Annex III).

Notes

1. A number of member States have provided detailed information on national environmental measures, principally in response to a Note Verbal, containing a questionnaire, sent out by the Secretary General of UNCTAD in 1992.

2. The HS nomenclature consist of "tariff lines", which are common for all participating countries at the 6-digit level (at this level of aggregation there are approximately 6000 tariff items). Individual countries may identify sub-items using additional digits to define national tariff lines.

3. This nomenclature has not been developed taking into account the need to monitor trade in products subject to environmental requirements. Some amendments may in the future be made to facilitate the collection of data on trade or to monitor trade in products which are subject to environmental regulations. For example, the United Nations Environmental Programme (UNEP) has requested the Harmonized System Committee of the World Customs Organization to introduce specific subheadings in the HS to facilitate the collection and comparison of data on the international movement of substances which are controlled under the Montreal Protocol on Substances that Deplete the Ozone Layer. Following this request the Council requested member States to take all appropriate steps to insert specific subheadings in their national nomenclatures.

4. It should further be noted that the present analysis is different from that presented in TD/B/WG.6/10/Add.1 in that the current analysis refers to product-specific measures which have been identified in specific markets, whereas the analysis presented in TD/B/WG.6/10/Add.1 identifies trade flows which are potentially vulnerable to environmental regulations. For example, the table presented on the United States does not include textiles, whereas textiles are included in all other tables. In addition, contrary to the analysis presented in TD/B/WG.6/10/Add.1, the current analysis does not cover trade in electronics, as in the case of this sector environmental measures tend to be process- rather than product related.

Annex I
Imports into the United States of selected products subject to environmental requirements
1993 value in US$ millions and (percentages)

Selected products	World	OECD countries	Developing countries	Of which:			Countries in transition
				Africa	Asia	America	
Tuna	1693.8	785.1 (46.4)	843.2 (49.8)	14.3 (0.8)	622.3 (36.7)	196.0 (11.6)	43.2 (2.6)
Shrimps and prawns	2511.5	235.0 (9.4)	2276.4 (90.6)	6.0 (0.2)	1320.6 (52.6)	949.7 (37.8)	0.1 (0.0)
Fruits and vegetables	4604.3	543.3 (11.8)	4044.4 (87.8)	25.8 (0.6)	365.4 (7.9)	3651.6 (79.3)	1.9 (0.0)
Asbestos and products made of	110.4	78.4 (71.1)	29.8 (27.0)	0.3 (0.3)	0.4 (0.4)	29.1 (26.4)	0.0 (0.0)
Organic chemicals	210.9	199.2 (94.5)	10.7 (5.1)	0.0 (0.0)	0.7 (0.3)	10.0 (4.7)	0.9 (0.4)
Fertilizers	1333.5	1070.7 (80.3)	157.0 (11.8)	14.4 (1.1)	19.5 (1.5)	123.1 (9.2)	86.8 (6.5)
Paints,varnishes,pigments,dyes	226.7	209.4 (92.4)	17.0 (7.5)	0.0 (0.0)	12.7 (5.6)	2.6 (1.2)	0.3 (0.1)
Detergents and cleansing	335.0	248.3 (74.1)	85.1 (25.4)	0.1 (0.0)	15.1 (4.5)	70.0 (20.9)	1.5 (0.4)
Insecticides,rodenticides, fungicides,pesticides,biocides	3838.2	3150.8 (82.1)	671.3 (17.5)	0.8 (0.0)	573.6 (14.7)	96.7 (2.5)	9.4 (0.2)
Plastics	7138.9	4581.1 (64.2)	2546.5 (35.7)	0.5 (0.0)	475.1 (28.9)	475.1 (6.8)	6.8 (0.1)
Tyres	2903.0	162.3 (74.5)	711.9 (24.5)	0.1 (0.0)	499.3 (17.2)	211.8 (7.3)	8.5 (0.3)
Pulp and paper products	5597.0	5510.4 (98.5)	77.9 (1.4)	0.1 (0.0)	6.4 (0.1)	71.3 (1.3)	4.8 (0.1)
Airconditioners	771.4	379.5 (49.8)	381.8 (50.1)	0.8 (0.1)	159.1 (20.1)	221.9 (29.1)	0.0 (0.0)
Refrigerators,freezers	486.4	245.7 (50.5)	240.3 (49.4)	0.0 (0.0)	57.4 (11.8)	170.6 (35.1)	0.2 (0.0)
Household appliances	1442.5	599.0 (41.5)	843.4 (58.5)	0.1 (0.0)	610.7 (42.3)	232.5 (16.1)	0.0 (0.0)
Batteries and accumulators	1068.5	659.1 (61.7)	409.4 (38.3)	0.3 (0.0)	221.8 (20.8)	186.6 (17.5)	0.0 (0.0)
Vehicles	82948.4	74825.4 (90.2)	7955.7 (9.6)	5.5 (0.0)	1431.5 (1.7)	6513.9 (7.9)	108.3 (0.1)
Total	117220.4	93482.7	21301.8	69.1	6391.6	13212.5	272.7
Total/manufacturing exports (%)	(24.7)	(32.7)	(12.0)	(7.4)	(4.8)	(30.1)	(19.6)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Imports into Japan of selected products subject to environmental requirements
1993 value in US$ millions and (percentages)

Selected products	World	OECD countries	Developing countries	Of which:			Countries in transition
				Africa	Asia	America	
Asbestos and products made of	9.5	7.4 (77.8)	2.1 (22.0)	0.0 (0.0)	2.1 (22.0)	0.0 (0.0)	0.0 (0.0)
Organic chemicals	325.0	189.2 (58.2)	133.5 (41.1)	0.0 (0.0)	110.9 (34.1)	22.6 (6.9)	2.2 (0.7)
Fertilizers	422.8	317.8 (75.2)	77.4 (18.3)	3.9 (0.9)	68.5 (16.2)	5.0 (1.2)	26.5 (6.3)
Paints, varnishes, pigments, dyes	79.5	69.2 (87.1)	10.2 (12.9)	0.0 (0.0)	10.2 (12.9)	0.0 (0.0)	0.0 (0.0)
Detergents and cleansing	143.8	106.2 (73.8)	37.6 (26.1)	0.0 (0.0)	37.3 (25.9)	0.3 (8.2)	0.0 (0.0)
Insecticides, rodenticides, fungicides, pesticides, biocides	2235.2	2046.0 (91.5)	165.4 (7.4)	0.0 (0.0)	160.6 (7.2)	4.8 (0.2)	18.1 (0.8)
Plastics	2519.0	1482.0 (58.8)	1035.9 (41.4)	0.0 (0.0)	1034.3 (41.1)	2.0 (0.1)	0.4 (0.0)
Wood and wood products	2733.1	373.2 (13.7)	2554.6 (86.2)	0.6 (0.0)	2342.6 (85.7)	12.9 (0.5)	0.6 (0.0)
Pulp and paper products	1203.7	1150.7 (95.6)	52.6 (4.4)	0.0 (0.0)	52.1 (4.3)	0.5 (0.0)	0.1 (0.0)
Textiles and clothing	231.6	40.8 (17.6)	174.3 (75.2)	0.0 (0.0)	188.7 (81.4)	1.1 (0.5)	0.1 (0.0)
Airconditioners	250.7	58.0 (23.1)	192.7 (76.9)	0.0 (0.0)	192.7 (76.9)	0.0 (0.0)	0.0 (0.0)
Refrigerators, freezers	307.1	147.7 (48.1)	158.9 (51.7)	0.0 (0.0)	158.9 (51.7)	0.0 (0.0)	0.5 (0.2)
Household appliances	23.9	5.5 (23.0)	18.4 (77.0)	0.0 (0.0)	18.4 (77.0)	0.0 (0.0)	0.0 (0.0)
Vehicles	6526.4	6251.8 (95.8)	268.6 (4.1)	0.0 (0.0)	229.4 (3.5)	39.0 (0.6)	0.5 (0.0)
Total	17011.3	12245.5	4882.2	4.5	4606.7	88.2	49.0
Total/manufacturing exports (%)	(15.2)	(19.0)	(10.6)	(4.3)	(10.3)	(7.6)	(9.9)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Imports into the European Union of selected products subject to environmental requirements
1993 value in US$ millions and (percentages)

Selected products	World	OECD countries (*)	Developing countries	Of which:			Countries in transition
				Africa	Asia	America	
Asbestos and products made of	424.3	375.4 (88.5)	24.5 (5.8)	7.5 (1.8)	5.3 (1.2)	7.0 (1.6)	8.9 (2.1)
Organic chemicals	3577.6	647.0 (18.1)	150.0 (4.2)	0.1 (0.0)	110.9 (3.1)	22.6 (0.6)	77.4 (2.2)
Fertilizers	3493.5	491.9 (14.1)	379.3 (10.9)	306.7 (8.8)	19.4 (0.6)	16.7 (0.5)	452.9 (13.0)
Paints,varnishes,pigments,dyes	2706.1	487.1 (18.0)	13.7 (0.5)	0.1 (0.0)	11.3 (0.4)	0.7 (0.0)	1.2 (0.0)
Detergents and cleansing	3242.6	385.8 (11.9)	21.9 (0.7)	0.7 (0.0)	13.2 (0.4)	1.3 (0.0)	2.1 (0.1)
Insecticides,rodenticides, fungicides,pesticides,biocides	12391.6	3485.0 (28.1)	492.4 (4.0)	6.5 (0.1)	430.1 (3.5)	49.5 (0.4)	102.2 (0.8)
Footwear	11532.0	543.3 (4.7)	3981.3 (34.5)	149.2 (1.3)	3434.6 (29.8)	362.3 (3.1)	370.4 (3.2)
Pulp and paper products	1152.2	236.3 (20.5)	47.1 (4.1)	0.8 (0.1)	10.3 (0.9)	1.3 (0.1)	0.1 (0.0)
Textiles and clothing	76756.3	5612.8 (7.3)	31579.6 (41.1)	4589.6 (6.0)	25242.2 (32.9)	604.1 (0.1)	2214.7 (2.9)
Airconditioners	1738.7	736.0 (42.3)	174.4 (10.0)	0.2 (0.0)	171.3 (9.9)	1.1 (0.1)	4.8 (0.3)
Refrigerators,freezers	2112.6	483.1 (17.8)	149.8 (5.5)	10.5 (0.4)	71.7 (2.6)	5.0 (0.2)	108.2 (4.0)
Household appliances	7225.0	932.0 (12.9)	774.1 (10.7)	0.8 (0.0)	627.0 (8.7)	14.7 (0.2)	58,8 (0.8)
Batteries and accumulators	2779.7	888.2 (32.0)	250.4 (9.0)	1.2 (0.0)	236.7 (8.5)	7.2 (0.3)	1.0 (0.0)
Vehicles	117501.7	22592.5 (19.2)	2171.4 (1.8)	53.4 (0.0)	1348.9 (1.1)	385.8 (0.3)	304.6 (0.3)
Total	246722.1	37896.4	40209.9	5127.3	31732.9	1479.3	3707.6
Total/manufacturing exports (%)	(26.3)	(14.9)	(33.6)	(54.9)	(32.2)	(22.3)	(36.6)

Source: UNCTAD, on the basis of Comtrade and Greentrade
(*):excluding intra EU trade

Imports into Germany of selected products subject to environmental requirements
1993 value in US$ millions and (percentages)

Selected products	World	OECD countries	Developing countries	Of which:			Countries in transition
				Africa	Asia	America	
Asbestos and products made of	79.2	65.9 (3.2)	7.7 (9.8)	0.0 (0.0)	1.4 (1.7)	5.3 (6.7)	3.5 (4.5)
Organic chemicals	1374.7	1136.7 (82.7)	120.4 (8.8)	0.0 (0.0)	109.7 (8.0)	8.6 (0.6)	12.2 (0.9)
Fertilizers	725,5	485.6 (66.9)	24.5 (3.4)	5,2 (0.7)	0.9 (0.1)	0.3 (0.0)	108.5 (15.0)
Paints,varnishes,pigments,dyes	363.7	362.2 (99.6)	0.4 (0.1)	0.0 (0.0)	0.2 (0.1)	0.0 (0.1)	0.0 (0.1)
Detergents and cleansing	525.7	515.5 (98.1)	6.7 (1.3)	0.0 (0.0)	2.4 (0.4)	0.0 (0.0)	0.2 (0.1)
Insecticides,rodenticides, fungicides,pesticides,biocides	2079.7	1899.7 (91.3)	144.8 (7.0)	0.0 (0.0)	127.7 (6.1)	15.4 (0.7)	24.5 (1.2)
Plastics	9232.6	8417.2 (91.2)	471.8 (5.1)	4.1 (0.0)	402.8 (4.4)	21.0 (0.2)	96.4 (1.0)
Tyres	1967.0	1753.0 (89.1)	164.4 (8.4)	0.3 (0.0)	130.8 (6.7)	6.1 (0.3)	16.4 (0.8)
Leather and leather products (exc. footwear)	3181.2	1169.7 (36.8)	1801.9 (56.6)	9.4 (0.3)	1710.7 (53.8)	68.8 (2.2)	76.0 (2.4)
Footwear	4192.1	2585.4 (61.7)	1261.2 (30.1)	36.0 (0.9)	1083.2 (25.8)	103.0 (2.5)	109.6 (4.6)
Wood and wood products	4506.3	3101.6 (68.8)	748.1 (16.6)	130.8 (2.9)	470.2 (10.4)	40.0 (0.9)	184.0 (4.1)
Tropical Timber	1123.0	684.0 (60.9)	349.5 (31.1)	116.3 (10.4)	202.1 (18.0)	20.7 (1.8)	36.1 (3.2)
Pulp and paper products	6018.8	5763.5 (95.8)	109.7 (1.8)	0.3 (0.0)	19.6 (0.3)	35.8 (0.6)	37.4 (0.6)
Textiles and clothing	27908.1	11476.9 (41.1)	13043.1 (46.7)	1149.7 (4.1)	10831.4 (38.8)	232.2 (0.8)	1274.9 (4.6)
Airconditioners	277.2	256.3 (92.5)	14.9 (5.4)	0.0 (0.0)	13.2 (4.8)	0.0 (0.0)	4.3 (1.6)
Refrigerators,freezers	1002.3	911.2 (90.9)	41.6 (4.2)	0.1 (0.0)	20.2 (2.0)	1.7 (0.2)	36.8 (3.7)
Household appliances	888.2	744.3 (83.8)	92.5 (10.4)	0.0 (0.0)	58.8 (6.6)	2.4 (0.3)	3.2 (0.4)
Batteries and accumulators	599.1	506.8 (84.6)	79.9 (13.3)	0.0 (0.0)	76.6 (12.8)	0.2 (0.0)	0.2 (0.2)
Vehicles	29342.1	28233.5 (96.2)	569.3 (1.9)	2.5 (0.0)	401.8 (1.4)	122.8 (0.4)	87.5 (0.3)
Total	95386.5	59740.0	19052.4	1455.0	15663.7	684.3	2111.9
Total/manufacturing exports (%)	(39.0)	(30.9)	(49.5)	(98.6)	(47.7)	(40.6)	(48.0)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Imports into The Netherlands of selected products subject to environmental requirements
1993 value in US$ millions and (percentages)

Selected products	World	OECD countries	Developing countries	Of which:			Countries in transition
				Africa	Asia	America	
Flowers	222.4	124.4 (55.9)	94.9 (42.7)	67.8 (30.5)	5.1 (2.3)	22.0 (9.9)	0.0 (0.0)
Asbestos and products made of	29.8	27.1 (90.9)	0.6 (1.9)	0.0 (0.0)	0.0 (0.0)	0.4 (0.0)	0.0 (0.0)
Organic chemicals	126.6	110.1 (87.0)	3.3 (2.6)	0.0 (0.0)	3.2 (2.6)	0.1 (0.1)	2.8 (2.2)
Paints,varnishes,pigments,dyes	198.7	197.0 (99.2)	1.5 (0.8)	0.0 (0.0)	1.1 (0.6)	0.2 (0.1)	0.1 (0.0)
Detergents and cleansing	434.2	430.0 (99.0)	2.5 (0.6)	0.0 (0.0)	2.2 (0.0)	0.2 (0.0)	1.3 (0.3)
Insecticides,rodenticides, fungicides,pesticides,biocides	1192.1	1129.9 (94.8)	26.5 (2.2)	0.0 (0.0)	21.7 (2.8)	4.7 (0.4)	7.9 (1.8)
Plastics	3648.3	3360.2 (92.1)	216.7 (5.9)	0.1 (0.0)	163.0 (4.5)	46.9 (1.3)	17.3 (0.5)
Tyres	768.0	670.0 (7.2)	77.0 (10.0)	0.6 (0.1)	67.3 (8.8)	4.5 (0.6)	4.6 (0.6)
Footwear	958.3	570.0 (59.5)	335.1 (34.9)	3.4 (0.4)	276.6 (28.9)	47.2 (4.9)	29.8 (3.1)
Tropical Timber	737.9	318.4 (43.1)	392.7 (53.2)	54.2 (7.3)	322.6 (43.7)	14.6 (2.0)	6.3 (0.8)
Pulp and paper products	2637.9	2564.8 (97.2)	11.3 (0.4)	0.1 (0.0)	4.1 (0.2)	4.2 (0.2)	10.9 (0.4)
Textiles and clothing	4971.4	2414.1 (48.6)	2205.4 (48.6)	197.3 (4.0)	1902.8 (38.3)	53.8 (1.1)	111.7 (2.2)
Airconditioners	154.6	148.2 (95.9)	6.4 (4.1)	0.1 (0.0)	6.0 (3.9)	0.3 (0.2)	0.0 (0.0)
Refrigerators,freezers	319.1	295.8 (92.7)	6.0 (1.9)	0.0 (0.0)	5.4 (1.7)	0.3 (0.1)	13.0 (4.1)
Household appliances	552.3	422.4 (76.5)	110.3 (20.0)	0.1 (0.0)	106.3 (19.2)	3.3 (0.6)	4.1 (0.7)
Batteries and accumulators	280.0	265.5 (94.8)	14.5 (5.2)	0.1 (0.1)	13.2 (4.7)	1.1 (0.4)	0.0 (0.0)
Vehicles	7604.6	7501.8 (98.6)	88.1 (1.2)	1.9 (0.0)	69.0 (0.9)	12.7 (0.2)	3.6 (0.0)
Total	24836.2	2054.7	3592.8	325.7	2969.6	216.5	213.4
Total/manufacturing exports (%)	(30.5)	(29.7)	(39.3)	(84.6)	(36.5)	(38.2)	(43.6)

Source: UNCTAD, on the basis of Greentrade

Annex II

Abbreviations and definitions of selected product measures

PR=	Prohibitions	Ban on the production, use and import of environmentally damaging products.
ST=	Standards & regulations	Environmental regulations to be met for sale on the domestic market. These regulations are in principle applied equally to domestic products and imported like products. Regulations can relate to the product's composition (e.g., content of hazardous substances), its quality (e.g., durability), or its performance (e.g., energy consumption).
TB=	Take back obligations	Obligation of the manufacturer or importer to take back products which can no longer be used. This approach makes the producer or importer responsible for re-use, recycling or other types of permitted waste treatment.
RR=	Recycling/reuse quotas	Measures prescribing a minimum percentages for the re-use or re-cycling of certain waste products or materials.
TC=	Taxes and charges	Taxes and charges on products which may create environmental stress.
DR=	Deposit refund schemes	Charges paid by consumer or importer, which are refunded when the products are returned to a collection system.
EL=	Eco-labelling	Voluntary labels informing the public that, within certain product categories which may pose environmental stress, certain products are determined by a third party to be environmentally more friendly than others, based on pre-set criteria (known as "type-I" labels in the ISO).
ML=	Mandatory labelling	Mandatory labels disclosing environment-related information.
VA=	Voluntary agreements	Formal agreements concluded between the Government and an economic sector, whereby the latter itself commits to achieve a specified environmental policy objective.
GP=	Government procurement	The use of purchasing power by local and/or national authorities to influence the markets for environment-friendly products.
CS=	Controlled substances	Products controlled by the Montreal Protocol on Substances that Deplete the Ozone Layer

Annex III

Estimated trade in selected products from developing countries and countries in transition (DT) subject to environmental product measures in the United States.

1993 value in US$ million - import share in percentages

Selected Product	HS codes	Measure code	Imports from world (W) and from developing countries and countries in transition (DT) and share	Main developing countries and countries in transition suppliers	Import value and share by main DT suppliers
Tuna	030231-030239,030341-030343,030349, 030410, 030420, 160414	PR,EL, ST	W: 1693.8 DT: 908.6 (53.6)	Thailand Taiwan Prov..of China	255.8 (15.1) 143.8 (8.5) 58.9 (3.5)
Shrimps and prawns	030613,030623,160520	PR,ST	W: 2511.5 DT: 2275.6 (90.6)	Thailand Ecuador Mexico	731.4 (29.9) 390.4 (15.6) 219.7 (8.7)
Fruits and vegetables	0701-0708,070910,070940-070960, 071010,071010,071030-071090,0711-0714,0801-0803,080410-080440, 080510,080530,080820,0807,0809, 081010- 081090,0812-0814	ST	W: 4604.3 DT: 4060.2 (88.2)	Mexico Chile Costa Rica	459.3 (32.8) 453.3 (10.0) 275.0 (9.8)
Asbestos and products made of asbestos	2524,6811,6812,6813	ST,PR	W: 110.4 DT: 30.9 (28.0)	Mexico Brazil Colombia	18.8 (17.0) 4.4 (4.0) 1.7 (1.5)
Organic chemicals	290314,290319,290330,290340	ST,PR	W: 210.9 DT: 11.7 (5.1)	Brazil Israel Mexico	6.2 (2.9) 5.2 (2.5) 3.6 (1.7)
Fertilizers	3102-3105	TC,ST, ML	W: 1333.5 DT: 262.8 (19.7)	Trinidad and Tobago Bulgary Chile	38.1 (2.9) 36.9 (2.8) 32.0 (2.4)
Paints,varnishes,pigments dyes	3208-3210,321290,3213	ST,PR	W: 226.7 DT: 17.2 (7.6)	Taiwan Prov.of China China Slovenia	5.5 (2.4) 5.3 (2.3) 1.7 (0.7)

Detergents	3401,3402	ST	W: DT:	335.0 86.7	(25.9)	Mexico Brazil Venezuela	55.6 3.9 3.4	(16.6) (1.2) (1.1)
Insecticides,rodenticides fungicides,pesticides, biocides	290359,290330,290362,290369,291829, 292090,292421,292429,292690,293229, 293290,2930,2931,293319,293339, 293340,293390,293420,293490,3808	PR	W: DT:	3838.2 684.4	(17.8)	Singapore Israel Brazil	469.8 98.7 46.6	(12.2) (2.6) (1.2)
Plastics	3901-3911,391721-391739,392010, 392099,392111-392190,3923,392520, 392590,392690	CS	W: DT:	7138.9 2556.1	(35.8)	China Taiwan Prov.of China Mexico	836.4 688.4 317.8	(11.7) (9.6) (4.5)
Tyres	4011-4013	TC	W: DT:	2903.0 728.4	(25.1)	Korea (Rep.of) Brazil Taiwan Prov.of China	210.4 150.5 140.9	(7.2) (5.2) (4.9)
Pulp and paper products	4801-4803,4809,4816,481810,481820	ST,EL	W: DT:	5597.0 86.6	(1.5)	Brazil Mexico Costa Rica	32.3 27.4 6.0	(0.6) (0.5) (0.1)
Aircondicioners	8415	ST,ML	W: DT:	761.4 381.9	(50.2)	Mexico Singapore Korea (Rep.of)	200.3 53.4 42.2	(26.3) (7.0) (5.5)
Refrigerators, freezers	8418	ST,ML	W: DT:	486.4 240.7	(49.5)	Mexico China Singapore	164.9 14.2 13.9	(33.9) (2.9) (2.8)
Household appliances	7321,7417,842112,842211,842219,8450 845121,845129,851610,851650,851660	ST,ML	W: DT:	1068.5 843.4	(58.5)	Korea (Rep.of) Mexico Thailand	310.3 223.8 85.3	(21.5) (15.5) (5.9)
Batteries and accumulators	850612,850780	ST,EL, DR	W: DT:	1068.5 409.4	(38.3)	Mexico Taiwan Prov.of China Hong Kong	175.2 78.3 34.7	(16.4) (7.3) (3.2)
Vehicles	8701-8711	ST,RR, TC	W: DT:	82948.4 8108.8	(9.8)	Mexico Korea(Rep.of) Taiwan Prov.of China	6107.3 899.5 342.9	(7.4) (1.1) (0.4)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Estimated trade in selected products from developing countries and countries in transition (DT) subject to environmental product measures in Japan.

1993 value in US$ million - import share in percentages

Selected product	HS codes	Measure code	Imports from world (W) and from developing countries and countries in transition (DT) and share		Main developing countries and countries in transition suppliers	Import value and share by main DT suppliers	
Asbestos and products made of asbestos	681110-681120,681190	ML	W: 9.5 DT: 2.1	(22.2)	Korea (Rep.of) China Thailand	0.9 0.8 0.4	(9.4) (8.2) (4.3)
Organic chemicals	2903,2904	PR,TS, CS	W: 325.0 DT: 135.7	(41.8)	Saudi Arabia Korea (Rep.of) Brazil	62.6 31.6 22.6	(19.3) (9.7) (6.9)
Fertilizers	3102-3105	ST	W: 422.8 DT: 104.9	(24.8)	Russian Federation Indonesia Korea (Rep.of)	24.0 16.8 13.6	(5.7) (4.0) (3.2)
Paints,varnishes,pigments dyes	3208-3210,321290,3213	EL,CS	W: 79.5 DT: 10.2	(12.9)	Taiwan Prov.of China Singapore Korea (Rep.of)	4.1 3.8 2.0	(5.2) (4.8) (2.5)
Detergents	3401,3402	EL.CS	W: 143.8 DT: 37.6	(26.1)	Korea (Rep.of) Malaysia Indonesia	10.2 6.2 5.2	(7.19 (4.3) (3.6)
Insecticides,rodenticides fungicides,pesticides, biocides	290359,290330,290362,290369,291829, 292090,292421,292429,292690,293229, 293290,2930,2931,293319,293339, 293340,293390,293420,293490,3808	PR,CS	W: 2235.2 DT: 188.2	(8.4)	Singapore China Korea (Rep.of)	57.5 43.4 37.6	(2.6) (1.9) (1.7)
Plastics	3915-3926	El.CS	W: 2519.0 DT: 1036.5	(41.1)	Taiwan,Porv.of China Korea (Rep.of) China	357.7 250.0 166.7	(14.2) (9.9) (6.6)
Wood and wood products	4410-4412,4414-4421	EL	W: 2733.1 DT: 2458.2	(86.3)	Indonesia Malaysia China	1716.0 243.4 155.5	(62.8) (8.9) (5.7)
Pulp and paper products	4801-4811,4814,4816,481730,4818, 4819,4901	EL	W: 1203.7 DT: 53.0	(4.4)	Taiwan Prov.of China China Malaysia	18.9 13.3 7.0	(1.6) 1.1) (0.6)

Textiles and clothing	560110,6111,630260,6305	EL	W: 231.6 DT: 174.5	(75.3)	China Korea (Rep.of) Viet nam	112.4 20.5 15.5	(48.5) (8.9) (6.7)
Aircondicioners	8415	ST,RR, EL,CS	W: 250.7 DT: 192.7	(76.9)	Malaysia Thailand Taiwan Prov.of China	119.3 58.4 11.9	(47.6) (23.3) (4.7)
Refrigerators,freezers	8418	ML,RR, CS	W: 307.1 DT: 159.4	(51.9)	Thailand Korea (Rep.of) Malaysia	107.2 25.7 12.7	(34.9) (8.4) (4.1)
Household appliances	8450	RR	W: 23.9 DT: 18.4	(77.0)	Philippines Malaysia Taiwan Prov.of China	10.9 3.2 2.7	(45.6) (13.3) (11.1)
Vehicles	8701-8711	ST,RR, TC	W: 6526.4 DT: 274.3	(14.2)	Taiwan Prov.of China Korea (Rep.of) Mexico	88.4 50.9 36.1	(1.4) (0.8) (0.6)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Estimated trade in selected products from developing countries and countries in transition (DT) subject to environmental product measures in the European Union.

1993 value in US$ million - import share in percentages

Selected product	HS codes	Measure code	Imports from world (W) and from developing countries and countries in transition (DT) and share		Main developing countries and countries in transition suppliers	Import value and share by main DT suppliers	
Asbestos and products made of asbestos	2524,6811-6813	PR	W: 424.3 DT: 41.3	(9.7)	South Africa Brazil Zimbabwe	7.4 6.4 6.1	(1.7) (1.5) (1.4)
Organic chemicals	290220,290340,290311-290369,2904, 290810,292144,292145,292159,292610	PR,ML, ST,CS	W: 3577.6 DT: 238.3	(6.7)	Israel Hungary China	37.1 35.9 34.2	(1.0) (1.0) (1.0)
Fertilizers	3102-3105	ST	W: 3493.5 DT: 936.7	(26.8)	Russian Federation Morocco Israel	237.5 169.9 118.6	(6.8) (4.9) (3.4)
Paints,varnishes,pigments dyes	3206,3208-3211,321290,3213,3215	PR,ML, EL,CS	W: 2706.1 DT: 16.2	(0.6)	China Korea (Rep.of) Taiwan Prov.of China	3.4 2.7 2.0	(0.1) (0.1) (0.1)
Detergent	3401-3402	ST,PR, ML,EL, CS	W: 3242.6 DT: 27.9	(0.9)	Slovenia Poland Israel	4.0 3.6 3.5	(0.1) (0.1) (0.1)
Insecticides,rodenticides fungicides,pesticides, biocides	290359,290330,290362,290369,291829, 292090,292421,292429,292690,293229, 293290,2930,2931,293319,293339, 293340,293390,293420,293490,3808	ST,PR, ML,CS	W: 12391.6 DT: 615.3	(5.0)	Singapore Israel China	135.2 117.7 108.5	(1.1) (1.0) (0.9)
Plastics	3901,3902,390311,390319,390410, 390421,390422,390610,390730,390760, 390791,390799,390910,39020,390950, 391211,391212,391290,391723,3918, 3923,392520,392610,392630,392690	ST,PR, CS	W: 37510.8 DT: 2512.0	(6.7)	China Taiwan Prov.of China Korea(Rep.of)	463.4 381.5 248.2	(1.2) (1.0) (0.7)
Footwear	6401-6405,6406	EL	W: 11532.0 DT: 4360.5	(37.8)	China Indonesia Korea (Rep.of)	1097.0 545.9 510.2	(9.5) (4.7) (4.4)
Pulp and paper products	4701-4705,481011-481029,481810, 481820	EL	W: 1152.2 DT: 53.7	(4.7)	Slovenia Thailand Poland	34.4 5.1 5.0	(3.0) (0.4) (0.4)

Textiles and clothing	5004-5007,510529,510610-511300, 520411-521225,530610-540834,550810-600299,611300,611610,611710-611790, 621040,621050,630120-630800	EL,ST	W: 76756.3 DT: 35579.9	(46.4)	China HongKong Turkey	4801.4 4244.1 3894.7	(6.3) (6.5) (5.1)
Airconditioners	8415	CS	W: 1738.7 DT: 179.8	(10.3)	Korea (Rep.of) Malaysia Israel	55.7 46.7 31.0	(3.2) (2.7) (1.8)
Refrigerators,freezers	8418	CS	W: 2712.6 DT: 269.6	(9.9)	Slovenia Hungary Turkey	61.1 55.6 37.1	(2.3) (2.0) (1.4)
Household appliances	7321,7417,842112,842211,842219,8450, 845121,845129,845180,850910,850930, 850940,850990,851010,851610,851650, 851660	ML,EL	W: 7225.0 DT: 905.5	(12.5)	China Korea (Rep.of) Slovenia	195.8 190.5 122.9	(2.7) (2.6) (1.7)
Batteries ans accumulators	8506,8507	ST,DR, ML	W: 2779.7 DT: 256.6	(9.2)	Hong Kong China Taiwan Prov.of China	59.8 41.5 40.1	(2.2) (1.5) (1.4)
Vehicles	8701-8711	ST	W: 117501.7 DT: 3143.1	(2.7)	Korea (Rep.of) Poland Slovenia	722.7 566.4 375.1	(0.6) (0.5) (0.3)

Source: UNCTAD, on the basis of Comtrade and Greentrade

Estimated trade in selected products from developing countries and countries in transition (DT) subject to environmental product measures in Germany.

1993 value in US$ million - import share in percentages

Selected product	HS codes	Measure code	Imports from world (W) and from developing countries and countries in transition (DT) and share	Main developing countries and countries in transition suppliers	Import value and share by main DT suppliers
Asbestos and products made of asbestos	2524,6811-6813	PR,GP	W: 79.2 DT: 11.4 (14.4)	Brazil Hungary Turkey	5.3 (6.6) 3.5 (4.5) 1.3 (1.6)
Organic chemicals	290220,290311-290369,290810,291211, 292144,292145,292159,2932,2933	PR,GP, VA,CS	W: 1374.7 DT: 140.0 (10.2)	Singapore Korea (Rep.of) China	39.8 (2.9) 34.2 (2.5) 20.1 (1.5)
Fertilizers	3102-3105	ML	W: 725.5 DT: 186.8 (25.7)	Poland Russian Federation Croatia	53.8 (7.4) 44.8 (6.2) 18.1 (2.5)
Paints,varnishes,pigmants dyes	3208-3211,321290	PR,EL, VA	W: 363.7 DT: 1.0 (0.3)	Poland Hungary Korea (Rep.of)	0.5 (0.1) 0.2 (0.0) 0.1 (0.0)
Detrgents and cleansing	3401-3402	ST,ML, EL	W: 525.7 DT: 9.6 (1.8)	Slovenia Poland Croatia	3.7 (0.6) 2.7 (0.5) 1.2 (0.2)
Insecticides,rodenticides fungicides,pesticides, biocides	290359,290330,290362,290369,291829, 292090,292421,292429,292690,293229, 293290,2930,2931,293319,293339, 293340,293390,293420,293490,3808	PR,ML, CS	W: 2079.7 DT: 172.4 (8.3)	Singapore Korea (Rep.of) China	39.8 (1.9) 32.8 (1.6) 30.7 (1.5)
Plastics	3901,3902,390311,390319,390410, 390421,390422,390610,390730,390760, 390791390799,390910,3909	GP	W: 9232.6 DT: 648.9 (7.0)	China Taiwan Prov. of China Poland	146.0 (1.6) 106.7 (1.2) 80.7 (0.9)
Tyres	4011-4013	EL	W: 1967.0 DT: 193.7 (9.8)	(Korea (Rep.of) Slovenia Taiwan Prov.of China	66.2 (3.4) 27.3 (1.4) 18.8 (1.0)
Leather and leather products (exc. footwear)	4101-4109, 4111-4304	ST	W: 3181.2 DT: 1931.1 (60.7)	China India Turkey	608.0 (19.1) 307.8 (9.7) 255.2 (8.0)

Footwear	6401-6405,6406	ST	W: 4192.1 DT: 1450.8	(34.6)	China Indonesia Thailand	501.0 115.5 115.3	(11.9) (2.7) (2.7)
Wood and wood products	440310,440320,440331-440335,440391-440710,440721-440723,440791,440792,440799,440810,440820,440890-441199,441211-441299, 441300-442190	ST	W: 4506.3 DT: 1239.4	(27.5)	Poland Indonesia Malaysia	307.4 188.2 117.8	(6.8) (4.2) (2.6)
Tropical timber	440331-440335,440721-440723,440799,440820,441211-441219,441229,441299	GP	W: 1123.0 DT: 418.9	(37.3)	Indonesia Malaysia Ghana	89.8 89.7 42.6	(8.0) (8.0) (3.8)
Pulp and paer products	4701-4705,4707,4801-4911	RR,EL, VA	W: 6018.8 DT: 175.8	(2.9)	Slovenia Brazil Poland	51.3 33.7 28.7	(0.9) (0.6) (0.5)
Textiles,clothing	5004-5007,520411-521225,540834,559810-631090	ML,PR, ST	W: 27908.1 DT: 15417.9	(55.2)	Turkey China Hong Kong	2440.4 2223.7 1476.4	(8.7) (8.0) (5.3)
Airconditioners	8415	CS	W: 277.1 DT: 19.4	(7.0)	Taiwan Prov.of China Hungary Israel	4.7 4.2 3.8	(1.7) (1.5) (1.4)
Refrigerators,freezers	8418	EL,VA, CS	W: 1002.3 DT: 83.6	(8.3)	Hungary Slovenia China	28.9 19.6 13.3	(2.9) (2.0) (1.3)
Household appliances	7321,7417,842112,842211,842219,8450,845121,845129,845180,8509,8510	VA	W: 599.1 DT: 80.4	(13.4)	China Slovenia Poland	42.8 31.2 12.4	(4.8) (3.5) (1.4)
Batteries and acumulators	8506-8507	EL,VA	W: 599.1 DT: 80.4	(13.4)	China Hong Kong Taiwan Prov.of China	18.8 18.5 11.0	(3.1) (3.1) (1.8)
Vehicles	8701-8711	TC,RR, EL	W: 29342.1 DT: 803.3	(2.7)	Korea (Rep.of) Poland Brazil	279.6 146.6 61.3	(1.0) (0.5) (0.2)

Source, UNCTAD on the basis of Comtrade and Greentrade

Estimated trade in selected products from developing countries and countries in transition (DT) subject to environmental product measures in The Netherlands

1993 value in US$ million / import share in percentages

Selected product	HS codes	Measure code	Imports from world (W) and from developing countries and countries in transition (DT) and share	Main developing countries and countries in transition suppliers	Import value and share by main DT suppliers
Flowers	0603	ST	W: 222.4 DT: 97.6 (43.9)	Israel Kenya Zimbabwe	76.4 (34.4) 39.0 (17.5) 222.7 (10.2)
Asbestos and products made of asbestos	2524,6811-6813	PR,VA, GP	W: 29.8 DT: 0.6 (2.0)	Peru Slovenia Brazil	(0.2) (0.7) (0.2) (0.6) (0.2) (0.5)
Organic chemicals	290311-290369,2904,290810	ST,PR, CS	W: 126.6 DT: 6.4 (5.1)	Israel Korea (Rep.of) Romania	2.1 (1.6) 2.0 (1.6) 1.6 (1.3)
Paints,varnishes,pigments dyes	320630,3208-3211,321290,3213	ST,PR, CL,EL, VA,GP, CS	W: 198.7 DT: 1.6 (0.8)	China Hong Kong Israel	0.6 (0.3) 0.3 (0.1) 0.3 (0.1)
Detergents	3401-3402	ST,ML, VA,CS	W: 434.2 DT: 3.9 (0.9)	Indonesia Hungary Russian Federation	0.9 (0.2) 0.7 (0.2) 0.6 (0.2)
Insecticides,rodenticides fungicides,pesticides, biocides	290359,290330,290362,290369,291829, 292090,292421,292429,292690,293229, 293290,2930,2931,293319,293339, 293340,293390,293420,293490,3808	PR,TB, ML,GP, CS	W: 1192.1 DT: 35.0 (2.9)	Israel India China	17.5 (1.5) 9.2 (0.8) 4.3 (0.4)
Plastics	3901-3911,391721-391739,392010-392099,392111-392190,3923,392520, 392590,392690	ST,EL, VA,CS	W: 3648.3 DT: 246.8 (6.8)	China Hong Kong Taiwan Prov.of China	39.1 (1.1) 33.4 (0.9) 30.9 (0.8)
Tyres	4011-4013	TB,RR	W: 768.0 DT: 86.9 (11.3)	Singapore Korea (Rep.of) Taiwan Prov.of China	17.2 (2.2) 11.6 (1.5) 10.7 (1.4)
Footwear	6401-6405	EL	W: 958.3 DT: 65.2 (38.1)	China Hong Kong Brazil	91.7 (1.3) 42.0 (4.3) 40.5 (4.2)

Tropical timber	440331-440335,440721-440723,440799, 440820,441211-441219,441229,441299	VA	W: 737.9 DT: 403.1	(54.6)	Malaysia Indonesia Cameroon	231.3 69.3 20.5	(31.3) (9.4) (2.8)
Pulp and paper products	4707, 4801-4818,4823	RR,EL	W: 2637.9 DT: 26.2	(1.0)	Hungary Brazil Russian Federation	4,8 3.9 3.8	(0.2) (0.1) (0.1)
Textiles	5701-5705,6101-6217,6303	EL	W: 4971.4 DT: 2480.9	(49.9)	Hong Kong Turkey China	441.1 314.3 239.0	(8.9) (6.3) (4.8)
Airconditioners	8415	CS	W: 154.6 DT: 4.1	4.1)	Korea (Rep.of) Malaysia Thailand	1.6 1.4 0.9	(1.0) (0.9) (0.6)
Refrigerators, freezers	8418	TB,EL, VA,GP, CS	W: 319.1 DT: 20.4	(6.4)	Hungary Russian Federation Latvia	6.1 3.5 1.9	(1.9) (1.1) (0.6)
Household appliances	7321,8509,8516	ST	W: 552.3 DT: 119.5	(21.6)	Hong Kong Korea (Rep.of) China	38.7 19.4 19.0	(7.0) (3.5) (3.4)
Batteries and accumulators	8506,8507	ST,RR, ML	W: 280.0 DT: 14.6	(5.2)	Hong Kong Korea (Rep.of) Taiwan Prov.of China	5.8 3.2 1.9	(2.1) (1.1) (0.7)
Vehicles	8701-8711	ST,TB, TC,VA, GP	W: 7604.6 DT: 98.2	(1.3)	Taiwan Prov.of China Korea (Rep. of) Thailand	19.0 16.2 14.7	(0.2) (0.2) (0.2)

Source: UNCTAD, on the basis of Comtrade and Greentrade